

What is claimed is:

1. An automatic music composing apparatus that automatically creates musical compositions to be reproduced as a background for images, comprising:
 - a bar number calculating device that calculates a number of bars of a musical composition that corresponds to a time period required by each of sections of images;
 - a bar number-corresponding data acquiring device that acquires bar number-corresponding data necessary to generate the musical composition and corresponding to the calculated number of bars;
 - a musical composition generating device that generates the musical composition based on the acquired bar number-corresponding data; and
 - an output device that outputs the generated musical composition according to each of the sections of the images.
2. An automatic music composing apparatus according to claim 1, comprising a musical composition length adjusting device that adjusts a length of the musical composition such that the generated musical composition has a length matching a time period required by a corresponding one of the sections of the images, and wherein said output device outputs the musical composition having the length thereof adjusted, according to each of the sections of the images.
3. An automatic music composing apparatus according to claim 1, wherein said bar number-corresponding data acquiring device acquires the bar number-corresponding data in units of a predetermined number of bars, and wherein the apparatus comprises a deleting device that deletes a portion of the bar number-corresponding data such that the acquired bar number-corresponding data corresponds to a number of bars that

10096673.031502

is greater than and is closest to a number of bars required for generating the musical composition.

4. An automatic music composing apparatus that automatically creates musical compositions to be

5 reproduced as a background for images, comprising:

a bar number calculating device that calculates a number of bars of a musical composition that corresponds to a time period required by each of sections of images;

10 a bar number-corresponding data acquiring device that acquires bar number-corresponding data necessary to generate the musical composition and corresponding to the calculated number of bars in units of a predetermined number of bars, said bar number-corresponding data
15 acquiring device acquiring the bar number-corresponding data that corresponds to a number of bars that is greater than and is closest to a number of bars required for generating the musical composition;

a musical composition generating device that generates the musical composition based on the acquired
20 bar number-corresponding data;

a musical composition length adjusting device that adjusts a length of the musical composition such that has a length matching a time period required by a corresponding one of the sections of the images; and

25 an output device that outputs the musical composition having the length thereof adjusted, according to each of the sections of the images.

5. An automatic music composing apparatus according to claim 4, wherein said musical composition
30 length adjusting device comprises a bar number deleting device that deletes a portion of the number of bars of the musical composition generated by said musical composition generating device.

6. An automatic music composing apparatus
35 according to claim 4, wherein said musical composition

10093573 "031506"

length adjusting device comprises a tempo adjusting device that adjusts a tempo of the musical composition generated by said musical composition generating device.

7. An automatic music composing apparatus
5 according to claim 4, wherein said musical composition length adjusting device comprises an insertion device that inserts a ritardando or fermata in the musical composition generated by said musical composition generating device.

10 8. An automatic music composing apparatus that automatically creates musical compositions to be reproduced as a background for images, comprising:

a musical composition generation data acquiring device that acquires data for generating a musical
15 composition appropriate to contents of images, the musical composition generation data including at least one data set each containing a plurality of types of musical composition generation parameters;

a musical composition generating device that
20 generates the musical composition based on the acquired musical composition generation data for each of the contents of the images; and

an output device that outputs the generated musical composition together with the images.

25 9. An automatic music composing apparatus according to claim 8, wherein said musical composition generation data acquiring device comprises a musical composition generation data storage device that stores a plurality of sections of musical composition generation
30 data classified into predetermined categories, and a musical composition generation data selecting device that selects desired musical composition generation data from said musical composition generation data storage device, and wherein said musical composition generation data
35 selecting device selects musical composition generation

data classified into categories appropriate to the contents of the images.

10. An automatic music composing apparatus according to claim 8, further comprising a section
 5 forming device that divides the images into a plurality of sections, and wherein said musical composition generation data acquiring device acquires the musical composition generation data for each of the sections of the images, said musical composition generating device
 10 generates the musical composition data for each of the sections of the images, and said output device outputs the musical composition data generated for each of the sections in correspondence with each of the sections of the images.

15 11. An automatic music composing apparatus that automatically creates musical compositions to be reproduced as a background for images, comprising:

a bar number calculating device that calculates a number of bars of a musical composition that corresponds
 20 to a time period required by images;

a bar number-corresponding data acquiring device that acquires bar number-corresponding data necessary to generate the musical composition and corresponding to the calculated number of bars;

25 a musical composition generating device that generates the musical composition based on the acquired bar number-corresponding data; and

an output device that outputs the generated musical composition together with the images.

30 12. An automatic music composing apparatus that automatically creates musical compositions to be reproduced as a background for images, comprising:

a bar number calculating device that calculates a number of bars of a musical composition that corresponds
 35 to a given required time period;

10098673-031502

a bar number-corresponding data acquiring device that acquires bar number-corresponding data necessary to generate the musical composition and corresponding to the calculated number of bars in units of a predetermined number of bars, said bar number-corresponding data acquiring device acquiring the bar number-corresponding data that corresponds to a number of bars that is greater than and is closest to a number of bars required for generating the musical composition;

10 a bar number-corresponding data length adjusting device that adjusts a length of the acquired bar number-corresponding data by deleting part of bars of the acquired bar number-corresponding data from a leading end the acquired bar number-corresponding data so that the
15 bar number-corresponding data matches the calculated number of bars; and

a musical composition generating device that generates the musical composition based on the bar number-corresponding data having a number of bars thereof
20 adjusted.

13. An automatic music composing apparatus that automatically creates musical compositions to be reproduced as a background for images, comprising:

a bar number calculating device that calculates a
25 number of bars of a musical composition that corresponds to a given required time period;

a bar number-corresponding data acquiring device that acquires bar number-corresponding data necessary to generate the musical composition and corresponding to the
30 calculated number of bars in units of a predetermined number of bars, said bar number-corresponding data acquiring device acquiring the bar number-corresponding data that corresponds to a number of bars that is greater than and is closest to a number of bars required for
35 generating the musical composition;

100906673 "031502"

a musical composition generating device that generates the musical composition based on the acquired bar number-corresponding data; and

5 a musical composition length adjusting device that adjusts a length of the musical composition such that the generated musical composition has a length matching the required time period.

14. An automatic music composing apparatus according to claim 13, wherein said musical composition
10 adjustment device comprises a bar number deleting device that deletes part of bars of the generated musical composition from a leading end of the generated musical composition.

15 15. An automatic music composing program that is executed by a computer, comprising:

a bar number calculating module for calculating a number of bars of a musical composition that corresponds to a time period required by each of sections of images;

20 a bar number-corresponding data acquiring module for acquiring bar number-corresponding data necessary to generate the musical composition and corresponding to the calculated number of bars;

25 a musical composition generating module for generating the musical composition based on the acquired bar number-corresponding data; and

an output module for outputting the generated musical composition according to each of the sections of the images.

30 16. An automatic music composing program that is executed by a computer, comprising:

a bar number calculating module for calculating a number of bars of a musical composition that corresponds to a time period required by each of sections of images;

35 a bar number-corresponding data acquiring module for acquiring bar number-corresponding data necessary to

10095573 00110000

generate the musical composition and corresponding to the
calculated number of bars in units of a predetermined
number of bars, said bar number-corresponding data
acquiring module acquiring the bar number-corresponding
5 data that corresponds to a number of bars that is greater
than and is closest to a number of bars required for
generating the musical composition;

a musical composition generating module for
generating the musical composition based on the acquired
10 bar number-corresponding data;

a musical composition length adjusting module for
adjusting a length of the musical composition such that
has a length matching a time period required by a
corresponding one of the sections of the images; and

15 an output module for outputting the musical
composition having the length thereof adjusted, according
to each of the sections of the images.

17. An automatic music composing program that is
executed by a computer, comprising:

20 a musical composition generation data acquiring
module for acquiring data for generating a musical
composition appropriate to contents of images, the
musical composition generation data including at least
one data set each containing a plurality of types of
25 musical composition generation parameters;

a musical composition generating module for
generating the musical composition based on the acquired
musical composition generation data for each of the
contents of the images; and

30 an output module for outputting the generated
musical composition together with the images.

18. An automatic music composing program that is
executed by a computer, comprising:

a bar number calculating module for calculating a
35 number of bars of a musical composition that corresponds

to a time period required by images;

5 a bar number-corresponding data acquiring module for acquiring bar number-corresponding data necessary to generate the musical composition and corresponding to the calculated number of bars;

a musical composition generating module for generating the musical composition based on the acquired bar number-corresponding data; and

10 an output module for outputting the generated musical composition together with the images.

19. An automatic music composing program that is executed by a computer, comprising:

15 a bar number calculating module for calculating a number of bars of a musical composition that corresponds to a given required time period;

20 a bar number-corresponding data acquiring module for acquiring bar number-corresponding data necessary to generate the musical composition and corresponding to the calculated number of bars in units of a predetermined number of bars, said bar number-corresponding data acquiring module acquiring the bar number-corresponding data that corresponds to a number of bars that is greater than and is closest to a number of bars required for generating the musical composition;

25 a bar number-corresponding data length adjusting module for adjusting a length of the acquired bar number-corresponding data by deleting part of bars of the acquired bar number-corresponding data from a leading end the acquired bar number-corresponding data so that the
30 bar number-corresponding data matches the calculated number of bars; and

35 a musical composition generating module for generating the musical composition based on the bar number-corresponding data having a number of bars thereof adjusted.

20. An automatic music composing program that is executed by a computer, comprising:

5 a bar number calculating module for calculating a number of bars of a musical composition that corresponds to a given required time period;

10 a bar number-corresponding data acquiring module for acquiring bar number-corresponding data necessary to generate the musical composition and corresponding to the calculated number of bars in units of a predetermined number of bars, said bar number-corresponding data acquiring module acquiring the bar number-corresponding data that corresponds to a number of bars that is greater than and is closest to a number of bars required for generating the musical composition;

15 a musical composition generating module for generating the musical composition based on the acquired bar number-corresponding data; and

20 a musical composition length adjusting module for adjusting a length of the musical composition such that the generated musical composition has a length matching the required time period.

10098673-031506